

WHAT IS CLAIMED IS:

1. A data transmitting method of a network line,  
which connects, via the network line, a transmitting  
apparatus for transmitting data to a plurality of receiving  
apparatuses for receiving said data and transmits said data  
from said transmitting apparatus to one of said receiving  
apparatuses, comprising the steps of:

holding an MAC (Media Access Control) address  
that is peculiar to each of said receiving apparatuses and  
a changeable IP (Internet Protocol) address into each of  
said receiving apparatuses;

previously holding said MAC address and said IP  
address into said transmitting apparatus every said  
receiving apparatus so as to correspond to each other;

outputting a predetermined IP address from said  
transmitting apparatus to said network line and, when said  
transmitting apparatus detects completion of the line  
connection to said receiving apparatus which holds said  
predetermined IP address, transmitting said data from said  
transmitting apparatus to said receiving apparatus; and

when said transmitting apparatus detects a  
defect of said line connection, outputting a transmitting  
request of the IP address and the MAC address from said  
transmitting apparatus to each of said receiving  
apparatuses, when said transmitting apparatus detects  
coincidence of its own MAC address held therein and the  
received MAC address, allowing said transmitting apparatus

to update the IP address corresponding to its own MAC address held therein to the received IP address, and transmitting said data to said receiving apparatus which holds said received IP address.

5           2.           The method according to claim 1, wherein when said transmitting apparatus detects the completion of said line connection, the transmitting request of the MAC address is outputted from said transmitting apparatus to said receiving apparatus which holds said predetermined IP  
10 address, and when said transmitting apparatus detects the coincidence of its own MAC address held therein and the received MAC address, said data is transmitted from said transmitting apparatus to said receiving apparatus which holds said predetermined IP address.

15           3.           The method according to claim 1, wherein said transmitting apparatus comprises a personal computer having a printer driver for generating print data as said data and said receiving apparatus is a network printer.

20           4.           The method according to claim 1, wherein said transmitting request of the IP address and the MAC address is outputted from said transmitting apparatus to said receiving apparatus and a table in which the received MAC address and the received IP address of each of said  
25 receiving apparatuses are made to correspond to each other is preliminarily formed in said transmitting apparatus.